



**NOAA-NASA WORKSHOP ON
INTEGRATING SATELLITE DATA PRODUCTS
FOR ECOSYSTEM-BASED MANAGEMENT
OF LIVING MARINE RESOURCES**



May 3-5, 2006

Monterey Bay Aquarium Research Institute
Moss Landing, California
<http://www.mbari.org>

Agenda – v. 7

Workshop Goals:

- 1) Document the potential for current and proposed satellite observations and related Earth systems models to support NOAA's ecosystem based management of living marine resources.
- 2) Identify models and assessments in use by NOAA Fisheries that could be improved by the incorporation of satellite data and related modeling infrastructure.
- 3) Identify requirements and gaps and develop strategies to facilitate the utilization of satellite data and related modeling infrastructure for NOAA Fisheries.

Workshop Products:

- 1) Produce an evaluation report for the agencies to identify and guide follow-up activities.
- 2) News articles for *EOS*, *Oceanography*, etc.

Day 1 – May 3, 2006

Workshop Introduction

8:15 – 9:00

- Purpose and Goals of Workshop
- NASA Applied Sciences Program (Turner/Friedl)
- NOAA National Marine Fisheries Service (Organization Overview - Murawski)
- NASA/NOAA R&O Activity (S. Wilson)

Fisheries Management & Fisheries Models 9:00 – 10:30

- NOAA Fisheries Management (Murawski)
- Use of Satellite Observations in Fisheries Regulation (C. Wilson)
- Fisheries Models 101: Overview of Types of Models & Information Used
- Linking and Coupling Fisheries Models with Ocean GCMs and/or ROMs (Chai)

Break 10:30 – 10:45

Fisheries Management & Fisheries Models (continued) 10:45 – 12:15

- Use of Oceanographic Information in Fisheries Models
- Use of Satellite Data in Reducing By-Line Catch
- Pacific Pelagics: Lessons Learned about Conservation and Management
- Use of Satellite Data in Habitat Classification for Protected Resources

Lunch 12:15 – 1:15 pm

Observations & Models: Current and Future Directions 1:15 – 2:45

- Satellite Ocean Observations – Operational Directions & Opportunities
- Satellite Ocean Observations – Research Directions & Opportunities
- Model Linkages: Ocean/Climate Models, Ecosystem Models, and Fisheries Models
- Visualization: Tools for Presenting Large Data Sets to Aid Managers
- Applications of Data Integration and Analysis Tools

This section will introduce the satellite observations available from current and future satellites as well as research efforts to link ocean/climate and ecosystem models.

Introduction of the Break-out Groups 2:45 – 3:00

- Purpose and Expectations of the Break-out Groups
- Workshop Evaluation Report

Break 3:00 – 3:15

Split into Break-out Groups

3:15 – 5:30

Group A: Improving Integrated Ecosystem Assessments with Satellite Data

Group B: Integrating Satellite Data into Fisheries and Ecosystem Models

Group C: Using Satellite Data to Create Linkages between Physical / Lower Trophic / Fisheries Models

Poster Session & Reception

5:30 – 7:00

Assignment for Evening of Day 1:

Develop or refine “integrated systems” charts and draft 2-4 paragraphs detailing potential areas to link observations and models with NOAA Fisheries’ management/policy decisions (and the related societal benefits expected from improved decision making).

Day 2 – May 4, 2006**Data Management: Availability of Observations & Model Products**

8:15 – 9:30

- NASA Data Product Availability
 - Goddard DAAC
 - JPL DAAC
- NOAA Data Product Availability
 - NESDIS
 - CoastWatch (Hughes)

Break-out Groups (Resume)

9:30 – 12:00

- Discuss write ups from night before. Select 1-2 “integrated solutions” to develop and refine
- Break into writing teams to compile sections of the evaluation report and draft new sections
- Prepare to show the selected “integrated systems” charts at lunch-time plenary

Lunch*12:00 – 1:00 pm***Break-out Groups: Report on Initial Progress**

1:00 – 2:15

- Integrated Systems Charts from each Break-Out Group
- Discussion: Reactions to the reports. Identification of missing elements.

Break-out Groups (Resume)

2:15 on

- Refine the group’s ideas and refine the “integrated systems” chart(s)
- Continue efforts to compile sections of the evaluation report and draft new sections
- Try to complete draft versions by late afternoon for distribution

Assignments for Evening of Day 2:

1. Complete writing and compiling of evaluation report sections (if needed)

2. Read and review the “integrated systems” charts and write-ups from the other break-out groups.

Day 3 – May 5, 2006

Break-out Group Reports 8:30 – 10:15

- Present final draft of “integrated systems” charts
- Present sections of report

Break *10:15 – 10:30*

Discussion 10:30 – 11:45

- Discuss the group reports, identify priorities between the reports and linkages between them
- Discuss data management issues to address
- Identify points of contact and follow-on steps for the activities

Closing Remarks 11:45 – 12:00

Adjourn *12:00 noon*

Meeting Organizers Convene 1:00 – 6:00

- Compile the break-out group reports
- Draft and edit final evaluation report
- Draft workshop overview for publication (*EOS, Oceanography, other*)
- Dinner/drinks or catch flights